California Debt & Investment Advisory Commission

Pension Obligation Bond Pre-Conference

September 12, 2004

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LEHMAN BROTHERS

Panel Participants

Overview	Rob Larkins – Senior Vice President, Lehman Brothers			
Legal / Disclosure Issues	Bill Deyo, Esq. – Partner, Nixon Peabody			
Case Studies:	Jay Goldstone – Finance Director, City of Pasadena			
	Geoff Davey - CFO / Debt Manager, Sacramento County			

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What Are POBs?

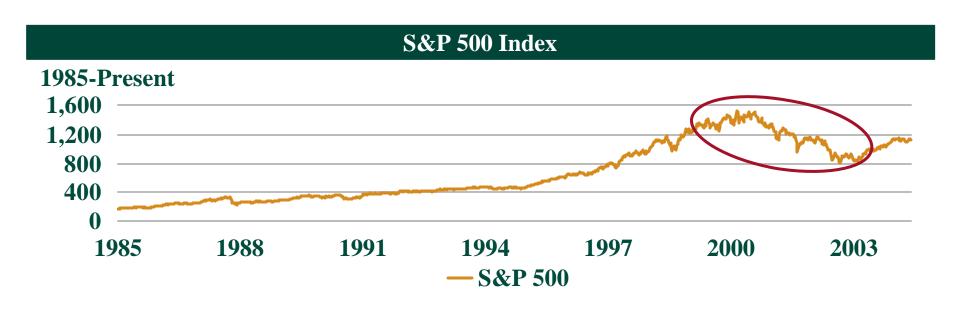
- ◆ Pension Obligation Bonds (POBs) are bonds issued by states and local municipalities (Plan Sponsors) to refund, in the capital markets, all or a portion of their Unfunded Actuarially Accrued Liabilities (UAAL)
- ◆ POBs are not issued by pension systems, nor are the pension systems liable for the bonds
- ◆ Plan Sponsors use bond proceeds to retire all or a portion of the UAAL, with savings resulting from the lower taxable bond market rates versus the pension system's actual earnings rate, which is effectively the Plan Sponsor's interest cost
 - Debt service derived from taxable bond market rates is lower than the actuarially projected employer's contribution that reflect the higher plan earnings assumption

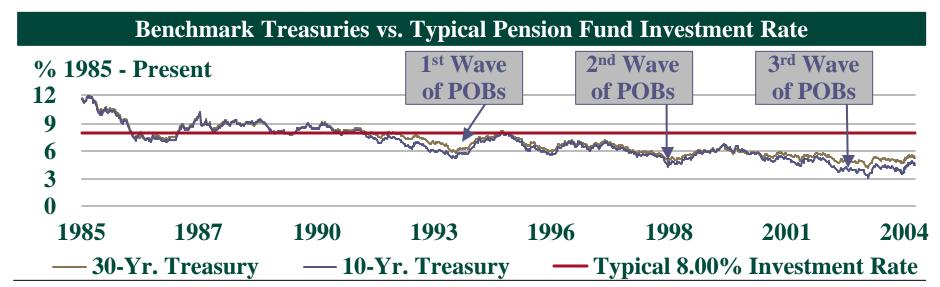
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Why Are POBs Back? – The "Perfect Storm"

- ◆ Reduced Portfolio Valuations
- ◆ Enhanced Retirement Benefits
- ◆ Historically Low Interest Rate Environment
- ◆ Widespread fiscal stress at all levels of government

Why Are POBs Back?



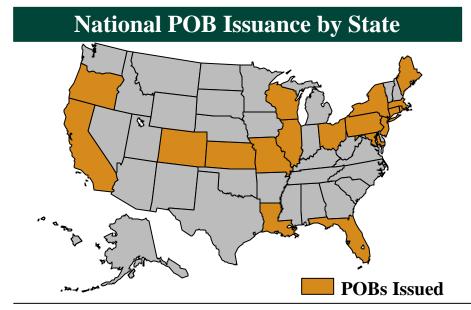


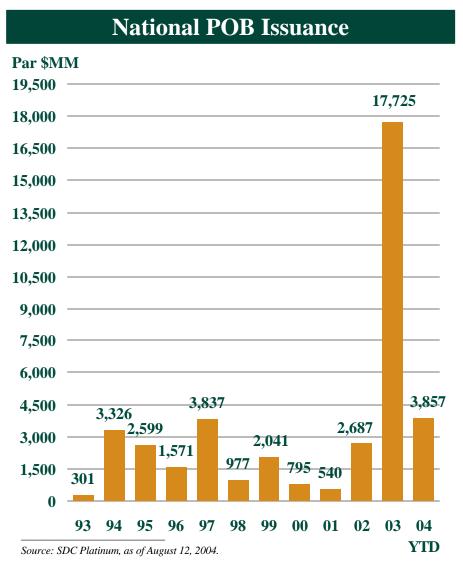
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National POB Issuance

- ◆ In 1993, Sonoma County, CA started the first wave of POBs with its \$97.4 million financing
- ◆ Since then, over \$32 billion of POBs have been issued nationally
- ◆ In 2003 several States issued POBs
 - Illinois

- Kansas
- Wisconsin
- Oregon





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California POBs

- ◆ There have been \$7.9 billion (25 transactions) POB financings completed in the State of California since 1994
- ◆ In 2003, 10 different California local governments issued \$2.2 billion of POBs
- ◆ 2004 issuance has been robust
- ◆ Because of CalPERS' investment underperformance in FY 2001-03, PERS' members are facing a massive increase in employer contribution rates (0-25% of payroll)
 - Many PERS agencies are actively evaluating POBs

Sale Date	Issuer	Par \$MM
12/04/86	Los Angeles County	461.493
10/20/93	Sonoma County	97.400
02/03/94	San Diego County	430.430
02/15/94	Contra Costa County	337.365
03/17/94	City of Fresno	245.555
04/21/94	City of Chula Vista	16.787
09/23/94	Orange County	110.200
09/23/94	Orange County	209.840
10/13/94	Los Angeles County	248.395
10/13/94	Los Angeles County	600.000
10/13/94	Los Angeles County	1,116.835
04/12/95	Alameda County	310.150
06/22/95	Sacramento County	134.000
06/22/95	Sacramento County	404.060
07/28/95	City of Santa Rosa	8.665
09/13/95	Stanislaus County	108.970
10/19/95	Los Angeles County	600.000
10/25/95	City of Long Beach	108.635
11/10/95	Kern County	227.818
11/22/95	San Bernardino County	420.527
11/30/95	Ventura County	154.510
04/24/96	Los Angeles County	327.400
06/06/96	Orange County	121.680
12/09/96	Mendocino County	30.720
12/12/96	Alameda County	306.863
01/07/97	Orange County	136.923
02/14/97	City of Oakland	436.289
05/15/97	Tulare County	41.460
11/19/97	Imperial County	35.175
03/12/98	Fresno County	184.910
04/22/98	City of Bell	1.870
05/19/98	City of Berkeley	12.415
06/24/98	Trinity County	9.140
02/03/99	Merced County	63.070
07/29/99	City of Pasadena	50.735

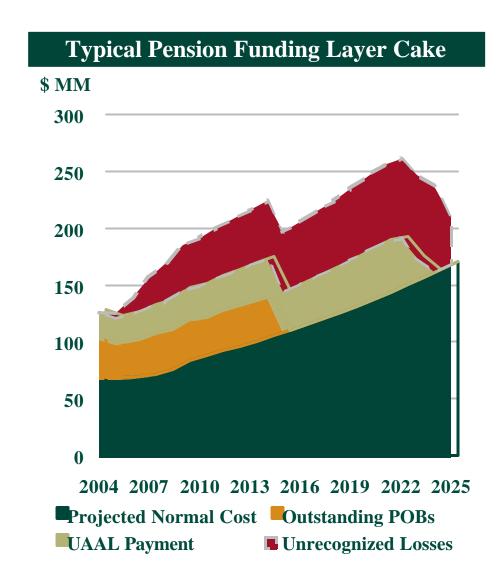
CalPERS member

Sale Date	Issuer	Par \$MM
07/29/99	City of Pasadena	51.205
11/03/99	City of Richmond	36.280
07/11/00	City of Fresno	52.800
07/11/00	City of Fresno	52.850
07/11/00	City of Fresno	52.850
07/11/00	City of Fresno	52.850
03/08/01	Contra Costa County	107.005
06/05/01	Imperial Irrigation District	75.000
06/13/01	City of South Gate	8.500
10/03/01	City of Oakland	195.639
01/23/02	City of Fresno	205.335
03/13/02	Fresno County	117.055
08/09/02	City of Long Beach	43.950
08/09/02	City of Long Beach	44.000
09/06/02	Imperial County	33.265
09/17/02	San Diego County	737.340
12/12/02	Mendocino County	91.945
04/23/03	Contra Costa County	322.710
05/07/03	Marin County	112.805
05/14/03	Sonoma County	231.200
05/15/03	Kern County	238.177
06/26/03	San Luis Obispo County	137.194
07/09/03	City of Santa Rosa	50.670
07/15/03	Sacramento County	152.321
03/10/04	Fresno County	402.898
06/10/04	Solano County	96.665
06/11/04	San Bernardino County	463.895
06/17/04	Union City	22.998
06/15/04	CSCDA Pool	197.084
06/18/04	South Coast Air Qual. Mgmt Dis	47.030
06/22/04	City of Burbank	25.120
06/24/04	Sacramento County	426.131
06/28/04	San Diego County	454.113
06/29/04	City of Pomona	38.000
08/05/04	City of Pasadena	40.000
	Total Par Amount	13,527.165

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Understanding the Whole Pension Funding Picture

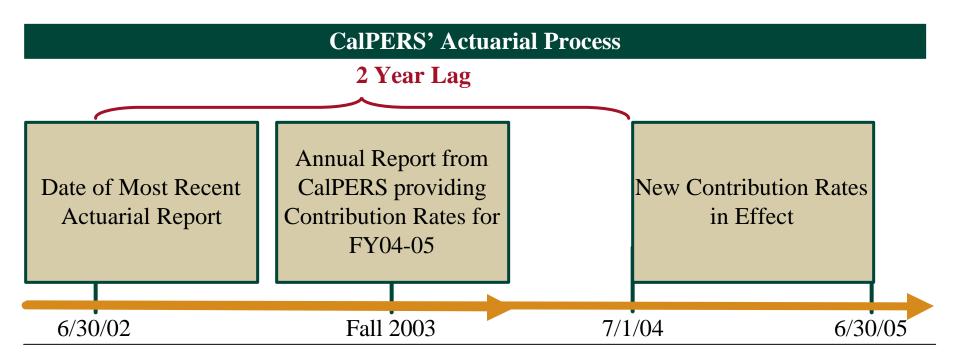
- ◆ UAAL only one piece of Pension
 Funding Program normal cost and unrealized losses
- ◆ Typical actuarial smoothing methodologies result in a lagging liabilities
- ◆ Many plans have a 5 year smoothing approach (CalPERS is 3 years) whereby unrealized losses are phased in at 20% annually, and are not bondable until actuarially realized
- ◆ Although they are not bondable, unrealized losses present a significant rating/disclosure issue



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Impact of Lagging Valuations & Smoothing Methodologies

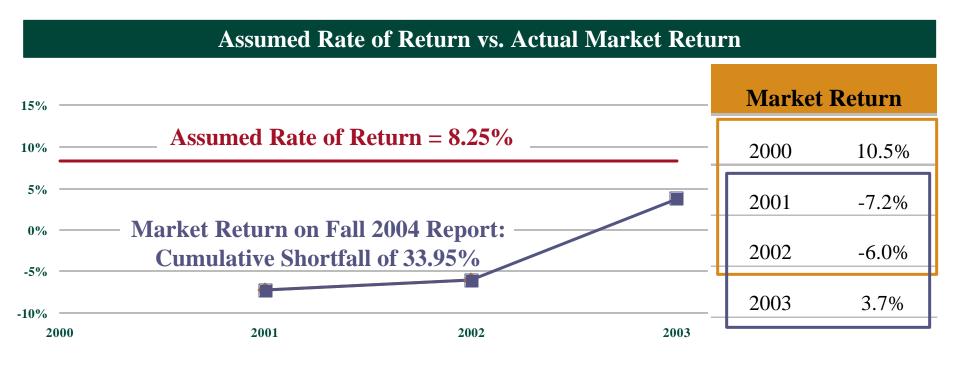
- ◆ Under existing CalPERS procedures, each Fall the member agency receives an annual report from CalPERS indicating its required contribution rates for the next fiscal year, based upon actuarial valuations approximately 18 months earlier
 - Inherent in this methodology is a 2 year lag between actuarial asset values and market returns



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Impact of Lagging Valuations & Smoothing Methodologies

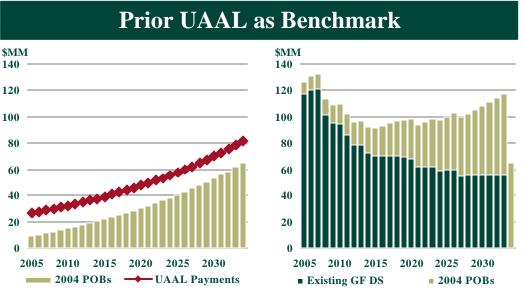
- ◆ Reports issued in Fall 2003, which set employer contributions for FY 2004-05, reflect 3 years ending 6/30/02
- ◆ PERS' member agencies should expect *further* contribution increases in FY 2005-06 reflecting three years ended 6/30/03
 - Additional impact of lowering rate to 7.75%

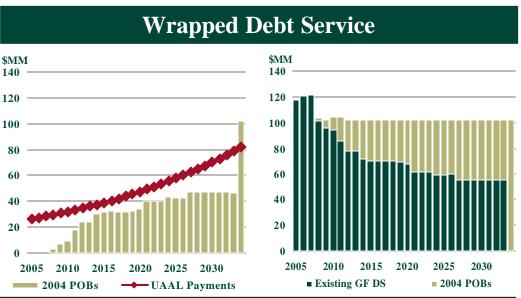


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Structuring Considerations

- ♦ How to integrate POBs into macro pension funding plan?
 - How much to bond?
- ♦ How to integrate POBs into macro debt management policies?
 - Shape of debt service
 - Fixed vs. variable
 - Call features





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POB Market Environment

POBs Remain Cost-Effective for Plan Sponsors

- ◆ 30-year POB financing <= 6% is still viable
- Adding an element of variable rate debt can further enhance POB economics and provide cost-effective callability

Current POB Pricing (1)

	Current Interest Bonds				Capital Appreciation Bonds			
Maturity	Benchmark	T-Yield	Spread	Yield	Benchmark	T-Strip	Spread	Yield
9/1/2005	5/05 6.500%	1.830%	0.150%	1.980%	8/15/2005	2.020%	0.500%	2.520%
9/1/2006	5/06 4.625%	2.360%	0.400%	2.760%	8/15/2006	2.530%	0.600%	3.130%
9/1/2007	5/07 4.375%	2.810%	0.500%	3.310%	8/15/2007	2.990%	0.650%	3.640%
9/1/2008	5/08 5.625%	3.140%	0.550%	3.690%	8/15/2008	3.290%	0.650%	3.940%
9/1/2009	7/09 3.625%	3.390%	0.600%	3.990%	8/15/2009	3.630%	0.650%	4.280%
9/1/2010	8/11 5.000%	3.910%	0.630%	4.540%	8/15/2010	3.900%	0.650%	4.550%
9/1/2011	8/11 5.000%	3.910%	0.650%	4.560%	8/15/2011	4.120%	0.650%	4.770%
9/1/2012	8/12 4.375%	4.080%	0.650%	4.730%	8/15/2012	4.320%	0.680%	5.000%
9/1/2013	8/13 4.250%	4.230%	0.650%	4.880%	8/15/2013	4.490%	0.680%	5.170%
9/1/2014	8/13 4.250%	4.230%	0.650%	4.880%	8/15/2014	4.650%	0.700%	5.350%
9/1/2015	8/13 4.250%	4.230%	0.750%	4.980%	8/15/2015	4.780%	0.700%	5.480%
9/1/2016	8/13 4.250%	4.230%	0.850%	5.080%	8/15/2016	4.940%	0.700%	5.640%
9/1/2017	8/13 4.250%	4.230%	0.900%	5.130%	8/15/2017	5.050%	0.700%	5.750%
9/1/2018	8/13 4.250%	4.230%	0.950%	5.180%	8/15/2018	4.160%	0.700%	4.860%
9/1/2019	8/13 4.250%	4.230%	0.980%	5.210%	8/15/2019	5.260%	0.700%	5.960%
9/1/2020	_				8/15/2020	5.330%	0.700%	6.030%
9/1/2021	_				8/15/2021	5.390%	0.700%	6.090%
9/1/2022	_				8/15/2022	5.450%	0.700%	6.150%
9/1/2023	_				8/15/2023	5.470%	0.700%	6.170%
9/1/2024	2/31 5.375%	5.070%	0.500%	5.570%	8/15/2024	5.500%	0.700%	6.200%
9/1/2025	_				8/15/2025	5.510%	0.700%	6.210%
9/1/2026	_				8/15/2026	5.530%	0.700%	6.230%
9/1/2027					8/15/2027	5.530%	0.700%	6.230%
9/1/2028					8/15/2028	5.530%	0.700%	6.230%
9/1/2029	_				8/15/2029	5.530%	0.700%	6.230%
9/1/2030					8/15/2030	5.530%	0.700%	6.230%
9/1/2031					8/15/2031	5.530%	0.700%	6.230%
9/1/2032					8/15/2032	5.530%	0.700%	6.230%
9/1/2033					8/15/2033	5.530%	0.700%	6.230%
9/1/2034					8/15/2034	5.530%	0.700%	6.230%
9/1/2035	2/31 5.375%	5.070%	0.650%	5.720%	8/15/2035	5.530%	0.700%	6.230%

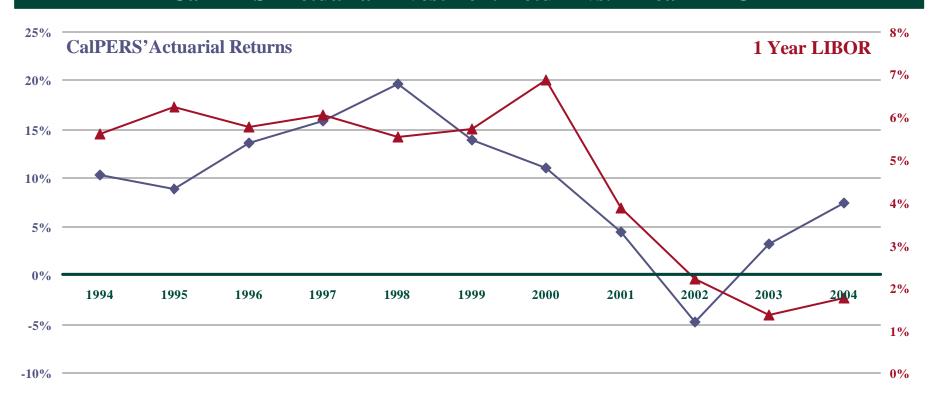
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⁽¹⁾ As of August 12, 2004.

The Case for Variable Rate

- Maintain call flexibility
- ◆ Lower overall cost
- ◆ Better nexus between assets (Pension fund) & liabilities (POBs)?

CalPERS' Actuarial Investment Return vs. 1 Year LIBOR



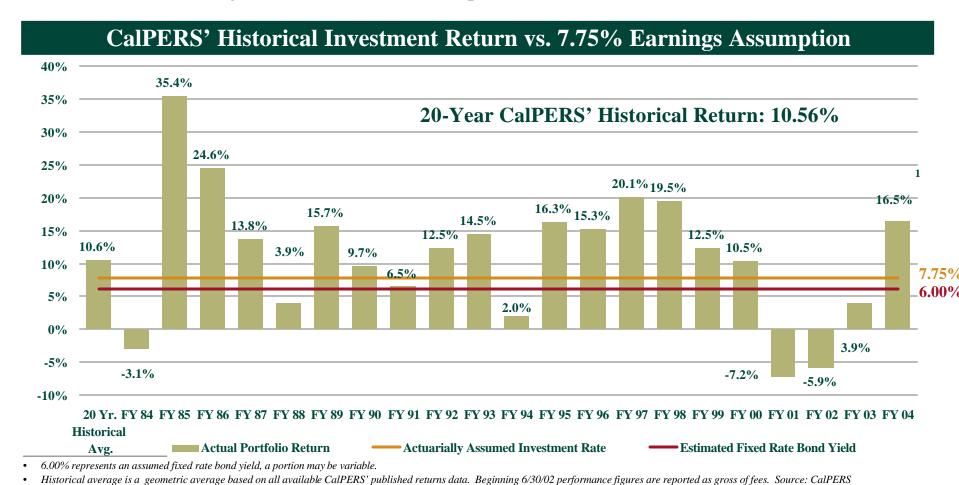
^{*} Beginning 6/30/02 performance figures are reported as gross offees. Source: CalPERS and Lehman Brothers

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Potential Risks of POBs

1. Through 6/30/04

- New benefits and other actuarial dynamics can create a new UAAL
- ◆ Underperformance of pension system investments vs. POB Cost of Funds
 - Market timing risk increases with lump sum investment



Not a Recommended Approach:

"If we take a late retirement and an early death, we'll just squeak by."

